

Manchester Urban Ponds Restoration Program
Average Water Quality Measurements Tables 2000 – 2007

Average Epilimnetic (*Top Layer of Water*) Total Phosphorus Measurements (mg/l)

	2000	2001	2002	2003	2004	2005	2006	2007
Crystal Lake	0.011	0.012	0.013	0.010	0.010	0.014	0.017	0.013
Dorrs Pond	0.045	0.024	0.023	0.024	0.030	0.026	0.030	0.022
Maxwell Pond	0.014	0.018	0.014	0.018	0.020	0.020	0.018	0.022
Nutts Pond	0.017	0.023	0.024	0.030	0.020	0.028	0.024	0.023
Pine Island Pond	0.024	0.016	0.026	0.029	0.020	0.020	0.026	0.022
Stevens Pond	0.019	0.025	0.018	0.017	0.020	0.017	0.031	0.030

Average Hypolimnetic (*Bottom Layer of Water*) Total Phosphorus Measurements (mg/l)

	2000	2001	2002	2003	2004	2005	2006	2007
Crystal Lake	0.025	0.017	0.014	0.018	0.018	0.013	0.017	0.018
Dorrs Pond	0.088	0.029	0.127	0.022	0.030	0.027	0.029	N/A
Nutts Pond	0.089	0.097	0.179	0.109	0.080	0.064	0.088	0.045
Pine Island Pond	0.028	0.030	0.030	0.031	0.040	0.032	0.032	0.055
Stevens Pond	0.042	0.023	0.035	0.027	0.080	0.027	0.034	0.047

Average Epilimnetic (*Top Layer of Water*) Conductivity Measurements (uMhos/cm)

	2000	2001	2002	2003	2004	2005	2006	2007
Crystal Lake	418	439	442	473	459	511	383	359
Dorrs Pond	408	831	866	759	644	842	455	631
Maxwell Pond	122	155	159	180	151	148	101	131
Nutts Pond	582	714	588	786	599	877	469	545
Pine Island Pond	287	383	316	339	256	324	235	252
Stevens Pond	769	1149	1172	1258	860	1099	578	785

Average Hypolimnetic (*Bottom Layer of Water*) Conductivity Measurements (uMhos/cm)

	2000	2001	2002	2003	2004	2005	2006	2007
Crystal Lake	417	481	433	526	454	525	385	351
Dorrs Pond	432	825	904	782	653	625	520	N/A
Nutts Pond	1769	1960	1798	2018	2193	2615	2160	1124
Pine Island Pond	305	350	318	306	268	320	237	221
Stevens Pond	792	1634	1126	1606	1041	1742	593	838

Average Chlorophyll-a Measurements (mg/m³)

	2000	2001	2002	2003	2004	2005	2006	2007
Crystal Lake	3.39	4.75	2.66	3.14	4.62	1.79	5.95	2.43
Dorrs Pond	30.84	14.75	9.86	18.03	15.09	8.34	12.13	8.83
Maxwell Pond	1.55	3.17	1.68	1.65	2.30	2.33	1.89	5.67
Nutts Pond	24.84	14.01	14.34	17.13	19.31	13.49	19.53	4.67
Pine Island Pond	8.04	13.20	8.23	2.21	8.97	8.46	11.04	10.63
Stevens Pond	8.66	6.26	13.88	4.28	9.44	3.04	63.57	35.47

Average Turbidity Measurements (NTU)

	2000	2001	2002	2003	2004	2005	2006	2007
Crystal Lake	0.49	0.89	3.22	0.79	1.64	0.82	1.41	1.79
Dorrs Pond	3.76	3.70	1.86	3.42	4.61	2.45	3.13	2.51
Maxwell Pond	2.03	3.40	1.10	2.57	2.12	1.69	1.63	2.09
Nutts Pond	0.93	1.80	3.78	2.80	5.32	2.64	1.71	1.43
Pine Island Pond	1.34	1.70	3.19	3.54	3.01	2.12	2.65	2.38
Stevens Pond	2.36	2.20	2.38	2.63	2.30	1.64	2.98	2.30

Average Secchi Disk Transparency Measurements (m)

	2000	2001	2002	2003	2004	2005	2006	2007
Crystal Lake	4.3	3.6	3.2	5.0	3.9	5.4	4.17	4.19
Dorrs Pond	1.1	1.3	1.9	1.7	1.7	2.0	1.98	1.86
Maxwell Pond	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Nutts Pond	3.1	2.4	2.3	2.3	1.8	2.5	2.48	3.47
Pine Island Pond	1.9	1.9	1.9	1.9	1.8	1.9	1.80	1.75
Stevens Pond	2.6	2.5	2.9	2.9	2.6	3.2	2.34	2.02